

FLEXIBLES (UK) LTD

PTFE BIOFLEX™ HOSE

The key feature of Bioflex PTFE hose is the PTFE liner tube design, comprising integral rib sections which support the tube against kinking, vacuum and pressure, and highly compressed web sections which give a smooth bore inner surface and excellent flexibility.

SIZE RANGE

3/8" (9.5mm) up to 2" (50mm).

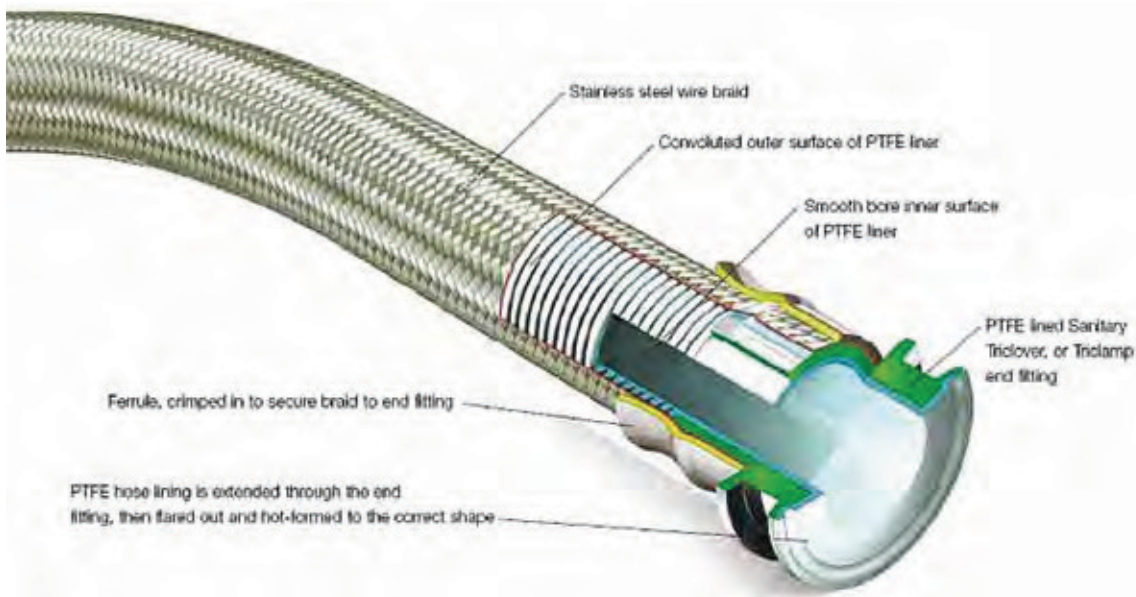
HOSE DESIGN OPTIONS

Natural or anti-static PTFE, stainless steel braid, with or without an EPDM or silicone rubber cover, or polypropylene, PVDF or hastelloy braid.

END FITTING OPTIONS

ASA150 or DIN flanges, Sanitary Triclamps (Triclovers), Camlocks, DIN11851, RJT, RJP and SMS fittings, BSPT or NPT fixed males, BSP or NPSM females, JIC, I-Line and many other standard and special fitting designs.

Another feature is the integral PTFE lined and flared end fitting design which is available for all standard end fittings applied to Bioflex hose assemblies. This provides clean, full-bore flow through the end fitting without any restrictions or entrapment points – unlike conventional fittings, which introduce a bore restriction, also an entrapment crevice at the inside end of the fitting tail. Much higher flow rates are achieved, in comparison with conventional fittings, reducing the time required to fill/empty vessels through the hose.



NOTE: The bore size of the hose is maintained right through the end fitting.

ADVANTAGES

1. No bore restriction at the ends, as with conventional inserted fittings, therefore higher flow rates.
2. Free, cleaner flow of fluid, without the fluid entrapment which occurs at the inside end of an inserted fitting.

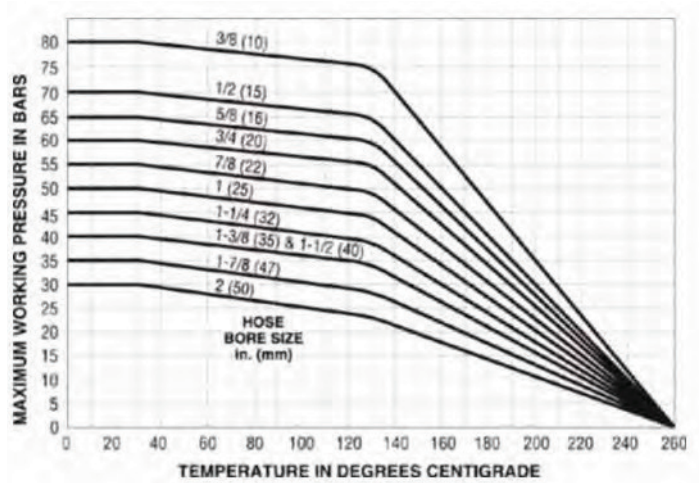
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SIZES AND SPECIFICATIONS RELEVANT TO STAINLESS STEEL BRAIDED ONLY

Nominal Hose Bore Size		Actual Bore Size		O.D. of Tube	O.D. of Braid or Rubber	Minimum Bend Radius	MWP of Hose*	Minimum Burst Pressure	Maximum Continuous Length	Weight
in	mm	in	mm	mm	mm	mm	bar	bar	mtrs	kg/mtr
3/8	10	3/8	9.5	11.96	12.83	20	80	320	18	0.14
1/2	15	1/2	12.7	15.49	16.6	38	70	280	18	0.29
5/8	16	5/8	16	19.40	20.6	45	65	260	18	0.35
3/4	20	3/4	19	23.20	24.5	50	60	240	18	0.40
1	25	1	25.4	31.00	32.3	70	50	220	18	0.63
1 1/4	32	1 1/4	32	37.30	39.5	100	45	180	18	0.85
1 1/2	40	1 1/2	38	45.00	47.0	140	40	160	17	1.10
2	50	2	50.8	59.10	61.0	200	30	120	10	1.90

TEMPERATURE VS PRESSURE

Due to its extremely strong construction, Bioflex has an outstanding resistance to temperature and pressure, much higher than that of conventional convoluted PTFE lined hose.



TEMPERATURE VS VACUUM

All sizes of Bioflex GP, SS and AS, SS are usable at full vacuum to 130°C. Above this, the vacuum resistance should be reduced by 1% for every degree above 130°C.

MAXIMUM OPERATING TEMPERATURES (INTERNAL FLUID)

SS braid -70°C to +260°C.